

# SECRET - 66048680

|  |     |     |
|--|-----|-----|
| CTT TCT ATT TGG TTA ACC ATG GCT CAT AAC TTT CGT CAT CCT TTC TTC          | 20  | 40  |
| Leu Ser Ile Trp Leu Thr Met Ala His Asn Phe Arg His Pro Phe Phe>         |     |     |
| CTT TTC CAA CTT TTA CTC ATT ACT GTC TCA CTA ATG ATC GGT AGC CAC          | 60  | 80  |
| Leu Phe Gln Leu Leu Leu Ile Thr Val Ser Leu Met Ile Gly Ser His>         |     |     |
| ACC GTC TCG TCA GCG GCT CGA CAT TTA TTC CAC ACA ACA ACC TCA              | 100 | 120 |
| Thr Val Ser Ser Ala Ala Arg His Leu Phe His Thr Gln Thr Thr Ser>         |     | 140 |
| TCA GAG CTG CCA CAA TTG GCT TCA AAA TAC GAA AAG CAC GAA GAG TCT          | 160 | 180 |
| Ser Glu Leu Leu Pro Gln Leu Ala Ser Lys Tyr Glu Lys His Glu Glu Ser>     |     |     |
| GAA TAC AAA CAG CCA AAA TAT CAT GAA GAG TAC CCA AAA CAT GAG AAG          | 200 | 220 |
| Glu Tyr Lys Lys Gln Pro Lys Tyr His Glu Glu Tyr Pro Lys His Glu Lys>     |     | 240 |
| CCT GAA ATG TAC AAG GAG GAA AAA CAA AAA CCC TGC AAA CAT CAT GAA          | 260 | 280 |
| Pro Glu Met Tyr Lys Lys Glu Glu Lys Lys Gln Lys Pro Cys Lys His His Glu> |     |     |
| GAG TAC CAC GAG TCA CGC GAA TCG AAG GAG CAC GAA GAG TAC GAT AAA          | 300 | 320 |
| Glu Tyr His Glu Ser Arg Glu Ser Lys Glu His Glu Glu Tyr Asp Lys>         |     |     |
| GAA AAA CCC GAT TTC CCC AAA TGG GAA AAG CCT AAA GAG CAC GAG AAA          | 340 | 360 |
| Glu Lys Pro Asp Phe Pro Lys Trp Glu Lys Pro Lys Glu His Glu Lys>         |     | 380 |
|  | 400 | 420 |

FIGURE 1A

# SECRET - 66048680

\*  
 CAC GAA GTC GAA TAT CCG AAA ATA CCC GAG TAC AAG GAC AAA CAA GAT  
 His Glu Val Glu Tyr Pro Lys Ile Pro Glu Tyr Lys Asp Lys Gln Asp>  
 440 460 480  
 GAG AAT AAG AAA CAT AAA GAT GAA GAG TGC CAG GAG TCA CAC GAA TCG  
 Glu Asn Lys Lys His Lys Asp Glu Glu Cys Gln Glu Ser His Glu Ser>  
 500 520  
 \*  
 AAA GAG CAC GAA GAG TAC GAG AAA GAA AAA CCC GAT TTC CCC AAA TGG  
 Lys Glu His Glu Glu Tyr Glu Lys Glu Lys Pro Asp Phe Pro Lys Trp>  
 540 560  
 GAA AAG CCT AAA GGG CAC GAG AAA CAT AAA GCC GAA TAT CCG AAA ATA  
 Glu Lys Pro Lys Gly His Glu Lys His Lys Ala Glu Tyr Pro Lys Ile>  
 580 600 620  
 \*  
 CCT GAG TGC AAG GAA AAA CTA GAT GAG GAT AAG GAA CAT AAA CAT GAG  
 Pro Glu Cys Lys Glu Lys Lys Leu Asp Glu Asp Lys Glu His Lys His Glu>  
 640 660  
 TTC CCA AAG CAT GAA AAA GAA GAG GAG AAG AAA CCT GAG AAA GGC ATA  
 Phe Pro Lys His Glu Lys Glu Glu Lys Lys Pro Glu Lys Gly Ile>  
 680 700 720  
 \*  
 GTA CCC TGA GTG GGT TAA AAT GCC TGA ATG GCC GAA GTC CAT GTT TAC  
 Val Pro \*\*\* Val Gly \*\*\* Asn Ala \*\*\* Met Ala Glu Val His Val Tyr>  
 740 760  
 TCA GTC TGG CTC GAG CAC TAA GCC TTA AGC CAT ATG ACA CTG GTG CAT  
 Ser Val Trp Leu Glu His \*\*\* Ala Leu Ser His Met Thr Leu Val His>  
 780 800  
 \*

FIGURE 1B

# 46202T" 66043580

GTG CCA TCA TCA TGC AGT AAT TTC ATG GGA TAT TGT AAT TAT ATT GTT  
Val Pro Ser Cys Ser Asn Phe Met Gly Tyr Cys Asn Tyr Ile Val>

820

840

860

AAT AAA AAA GAT GGT GAG TGG GAA ATG TGT GTG TGC ATT CAT CCA TGA  
Asn Lys Lys Asp Gly Glu Trp Glu Met Cys Val Cys Ile His Pro \*\*\*>

880

900

\*

GCA ATG CTG AAT CTC TTT GCA TGC ATA GAG ATT CTG AAT GGT TAT AGT  
Ala Met Leu Asn Leu Phe Ala Cys Ile Glu Ile Leu Asn Gly Tyr Ser>

920

940

960

TTA TGT TAT ATC GTT TGT TCT AGT GAA ATT AAT TTT GAA TGT TGT ATG  
Leu Cys Tyr Ile Val Cys Ser Ser Glu Ile Asn Phe Glu Cys Cys Met>

TAA TGT T

\*\*\* Cys Xxx>

FIGURE 1C

# 45202T"65048530

|            |            |             |
|------------|------------|-------------|
| 20         | 40         | 60          |
| ACTAAAGGGA | ACAAAAGCTG | GAGCTCCACC  |
|            | GCGGTGGCGG | CCGCTCTAGA  |
|            |            | ACTAGTGGAT  |
| 80         | 100        | 120         |
| CCCCCGTGGA | CTAAACAAAA | CATGGGAAGA  |
|            | TTTGCTGTAA | AAAAATAAAA  |
|            |            | GAAAGCTTACT |
| 140        | 160        | 180         |
| CAATAACACT | TTGTGAATTG | TATACAAAAG  |
|            | ACTCAATGAA | AAACAATAAC  |
|            |            | TCAATACACT  |
| 200        | 220        | 240         |
| TTTTTTCAC  | GATTACATC  | CTTTATATAG  |
|            | GCTGAAACTA | CAACAACCTT  |
|            |            | AGCTAAAAAA  |
| 260        | 280        | 300         |
| ATAGGATAAC | CTAATAGCAA | AATCACAATC  |
|            | AGATATATAA | CCATGATTTT  |
|            |            | AGCTAACCAT  |
| 320        | 340        | 360         |
| TTAACAACTT | TATTGAAACT | AATTGAATA   |
|            | TTTCATCTGC | TGATATGCCC  |
|            |            | AAGATTTTAG  |
| 380        | 400        | 420         |
| GCCACTAACC | GATTGGTGG  | TGAACTTTAA  |
|            | CATGTCATGC | ATTTGTAACT  |
|            |            | GTTTGAAACA  |
| 440        | 460        | 480         |
| AGTTTTTTGC | ATTATTTTAC | TATATGAACT  |
|            | GTTTGATTAG | GTTGAGTTAC  |
|            |            | ACACTGAGCT  |
| 500        | 520        | 540         |
| TGTAAGCTCA | CTCAAATTTT | TCTAATTTCT  |
|            | AAGGTGATCA | GCAAACTTAG  |
|            |            | GACCGGGCGG  |
| 560        | 580        | 600         |
| CGTACGAGAG | CTCGGATTGA | TTTTCTAGTT  |
|            | AATAAATAAG | ACGATTTATG  |
|            |            | TTTTTTAACT  |

Figure 2A

# 45822T" 66048630

|             |            |             |            |            |             |            |
|-------------|------------|-------------|------------|------------|-------------|------------|
| ATTATGGACT  | TTTTGGACTA | TGTAAC      | TGTT       | TGGACTT    | TTATTTGTTTT | TTATTTGCTT |
| 620         | 640        |             |            |            |             | 660        |
| TTTTTTGGATT | TAGTAATTAT | TATTTTTTAAA | CTGCAAAATT | ATATGTTTTT | ACAAACTAAG  |            |
| 680         | 700        | *           |            |            |             | 720        |
| TCACAGTTTT  | CAAAATTCCA | TAACTTAGAA  | TTTTTCGCTG | CAAAATAAAG | TAAATCATTTA | 780        |
| 740         | 760        |             |            |            |             |            |
| AGTGTTTTTT  | CTGTAATAAA | ATAAAATAAAT | AATTTTAAAG | AGTATTTTCC | TAAAAAATTGG | 840        |
| 800         | *          | 820         |            |            |             |            |
| AAATTGATTT  | ACCAAAATTA | GTATGTCAAA  | ACACATGTTT | ATATGTTACA | GGCGGATATC  | 900        |
| 860         | 880        |             |            |            |             | *          |
| GTCTAGGCAA  | ATAACATCTA | GGCGGGGTTT  | GGAGTGTAC  | AGGGCGAGTG | GGCTCATTTT  | 960        |
| 920         | 940        |             |            |            |             |            |
| 980         | 1000       | *           |            |            |             | 1020       |
| GAGTAAGTAT  | AGTTAGGGCC | GAGTTTAGA   | TTCATAATTC | AAGGTCAAAG | ATTTTGTAAA  |            |
| 1040        | 1060       |             |            |            |             | 1080       |
| CTTCGATGAA  | TGATAATGAT | GATTGTCCGA  | TAAACGAAAT | ATGTTTTTTT | CTTTTGTGTG  |            |
| 1100        | 1120       |             |            |            |             | 1140       |
| TGTTTTATCT  | CGTGTGATAA | GTATATAGTA  | TGTTTTAATC | CAATTCCTAT | GGCATGTGAC  |            |
| 1160        | 1180       |             |            |            |             | 1200       |
| ATTGTGGCTA  | TTCTAAATTA | ATTGATTGTT  | TATTATTGAA | ATCTGATGCA | TCTGTTCTAC  | *          |
| 1220        | 1240       |             |            |            |             | 1260       |

Figure 2B

# Accession: 66048680

|  |      |      |      |
|--|------|------|------|
| AAAGCATGGA ATCTCATGCC TACTGCTTTC TGTTAAAGAT ACGATTGCAA GTTTAACATG    | 1280 | 1300 | 1320 |
| CTTACTATTT TGATTTTGTC CTTGCATGCT ATGTCACATT ACATGGGGTT GGGATGATAT    |      | *    |      |
| GGTAAGGAGG AAGTTTTCGAC AGTTTAAATGA TTTCGACTAT CTGGTGGTTT AACACACATAT | 1340 | 1360 | 1380 |
| TTGTTATGGC ATCTTGACTG CCGTTATGGT GGCTCGACCG CCCATATCTG TTCTGGAAAT    | 1400 | 1420 | 1440 |
|  | *    |      |      |
| TTATCTGTGA CTCCTGGTGGC ATTGTCTACA ATTATTTGTT GGTTGTGTTT GGATGGACGA   | 1460 | 1480 | 1500 |
|  |      |      | *    |
| GTCGTGGGGA ACTCTATTTC GTGTGTTGCG GAGTTGGGTA GGAAATTTTC GAAAAAAATTT   | 1520 | 1540 | 1560 |
| TGCATTGTGT TTTTCTGAAA AATATTGCAT TAACATAATC ATGCATCTTC AATTTTGGTC    | 1580 | 1600 | 1620 |
|  |      | *    |      |
| AATTGAACGT TATAAAATTC TCTATGATAT CCTGATCTGT TTATTACATT ATATGTGTTT    | 1640 | 1660 | 1680 |
| ATGCTTGAGT TAAGTCAAAC ATTGAGATTC ATAGCTCACC CAATTATTTA ATCATTTCAG    | 1700 | 1720 | 1740 |
|  | *    |      |      |
| GCAATCTGCA GACTTAGGAT TGGATGGCGT TCAGGAGCTT GGATTGGTTT TCTCACATCA    | 1760 | 1780 | 1800 |
|  |      |      | *    |
| TATTTTATTA AATAATTATT AATTAAAATT TATGGACTTT TGGACTGTCT GACTAATTTT    | 1820 | 1840 | 1860 |

Figure 2C

# 46E02T" 66048680

|             |              |             |
|-------------|--------------|-------------|
| 1880        | 1900 *       | 1920        |
| CAGAAATTTTA | TTTTGGTTTT   | GGGTTTGTGTT |
|             | GAATTTTTTA   | GATAATTATT  |
|             |              | TTAAATATTC  |
| 1940        | 1960         | 1980        |
| TGCATAAATTT | TTCTGTTATT   | TGAAAAAGGAT |
|             | GTTTCGAAATTT | TTTTTCAAAA  |
|             |              | TTGAAACGTT  |
| 2000 *      | 2020         | 2040        |
| TAAGAAATTTT | TACTACTGCA   | AATTCAGAAT  |
|             | AAGTGAAATTT  | GTTTTTTTAGA |
|             |              | AAGATTAAAT  |
| 2060        | 2080         | 2100 *      |
| AAGTTAGTAT  | TACGAATTTTT  | AGTTTGATTT  |
|             | GGTGGAAAAGT  | AATGTATGTT  |
|             |              | TTTGAACATA  |
| 2120        | 2140         | 2160        |
| ATTATTGAC   | AATAAATTAAG  | TTTTCTAGGG  |
|             | AATAAACGGA   | AATATCTTCT  |
|             |              | TCTTTTTTTGT |
| 2180        | 2200 *       | 2220        |
| AAAATTACTA  | ATGCAAGAAC   | AAACAACGTT  |
|             | TTGGGGAGCA   | AATAATCTAG  |
|             |              | CTTTAAGTAG  |
| 2240        | 2260         | 2280        |
| TCAGTGTAAC  | TCCTCAAAATC  | TGGTCATAAC  |
|             | TTCTAGGCTG   | AGTTTGCTGT  |
|             |              | GCTACAGTAG  |
| 2300 *      | 2320         | 2340        |
| TAAGTCTATA  | GAAACTTACC   | TGACAAAACG  |
|             | ACATGACGTC   | AGGGTCGAAT  |
|             |              | CTACAACTTT  |
| 2360        | 2380         | 2400 *      |
| TCCTTTTTCT  | TCAATTAAAC   | TATGGTTGAT  |
|             | TCAAGTTCCG   | ATCTATAATA  |
|             |              | ATTTATTACG  |
| 2420        | 2440         | 2460        |
| ATTTATCAAT  | TTCAATTACC   | TTATATCATC  |
|             | CTATTATAAA   | TATAAGTCAG  |
|             |              | TTCAATTTCAG |

Figure 2D

# 26E02T" 66048680

|   |        |        |
|---|--------|--------|
| 2480  | 2500 * | 2520   |
| TTTTCGAAAG TTCCCAAAA TTTTGAATTT TATTAAATTT ATTCCCTAAA ACCGAAATAG    |        |        |
| 2540  | 2560   | 2580   |
| TTATATCTTT CAAATTTAAG TTTTCATTTTT CAATCCGATT TCAATTTCAT CCTTTTATAA  |        |        |
| 2600 *  | 2620   | 2640   |
| CTCTCTATTA TCTATAATTA CATAAATTTC AAATTAATTT TGAAATATTT ACACTTTAGT   |        |        |
| 2660  | 2680   | 2700 * |
| CCCTAAGTTC AAAACTATAA ATTTTCACTT TAGAAATTA TCAATTTTCA CATCTAAGCA    |        |        |
| 2720  | 2740   | 2760   |
| TCAAATTTAA CCAATGACA CAAATTTTCAT GATTAGTTAG ATCAAGCTTT TGAGTCTTCA   |        |        |
| 2780  | 2800 * | 2820   |
| AAACATAAAA ATTACAAAAA AAAAAACAAC TTAAATCAT TTATCAATTT GAACAACAAA    |        |        |
| 2840  | 2860   | 2880   |
| GCTTGGCCGA ATGCTAAGAG CTTAAAAATG GCTTCTTTTG TTTCTTTTIG TTGCAACCG    |        |        |
| 2900 *  | 2920   | 2940   |
| TGGAGAGAAG AGGGAATGA AGATTGACCA TATTTTTTTA TTATGTTTTA ACATATAATA    |        |        |
| 2960  | 2980   | 3000 * |
| TTAATAAATTT AATCAATAATT ATACTTTGGT GAATGTGACA GTGGGGAGAT ACGTAAAGTA |        |        |
| 3020  | 3040   | 3060   |
| TTTTTAACATT ATACTTTTIG CAAGCAGTTG GCTGGTCTAC CCAAGAGTGA TCAAAGTTTG  |        |        |
| 3080  | 3100   | 3120   |

Figure 2E



# Sequence 65043580

|             |             |             |             |            |            |
|-------------|-------------|-------------|-------------|------------|------------|
| AGCTGCCCTTC | AATGAGCCAA  | TTTTTGGCCA  | TAATGGATAA  | AGGCAATTG  | TTTAGTTCAA |
|             |             |             |             |            | *          |
| 3140        | CTGCTCACAG  | AATAATGTTA  | AAATGAAATT  | AAAATAAGGT | GGCCTGGTCA |
|             |             |             |             |            | 3180       |
| 3200        |             |             |             |            |            |
|             |             |             |             |            | 3240       |
|             |             |             |             |            | *          |
| 3260        | AAAAAACTAA  | TGTTGGTTGG  | TTGAAATTTTA | TATTACGGAA | TGTAATATTA |
|             |             |             |             |            | TATTTTAAAA |
| 3280        |             |             |             |            |            |
|             |             |             |             |            | 3300       |
|             |             |             |             |            | *          |
| 3320        | TAAATTTATG  | TTATTTTAGAT | TCTTAATATT  | TTGGAGCATT | CCATACTATA |
|             |             |             |             |            | ATTTCGTAAC |
| 3340        |             |             |             |            |            |
|             |             |             |             |            | 3360       |
| 3380        | ATAATATTAA  | AATATAGTAA  | TATAAAGTGT  | AATTAACTTT | AAATTACAAG |
|             |             |             |             |            | CATAATATTA |
| 3400        |             |             |             |            |            |
|             |             |             |             |            | 3420       |
|             |             |             |             |            | *          |
| 3440        | AATTTTGAAT  | CAATTAATTT  | TTATTTTCTAT | TATTTTAAAT | AATTTAGTCT |
|             |             |             |             |            | ATTTTTTCAA |
| 3460        |             |             |             |            |            |
|             |             |             |             |            | 3480       |
|             |             |             |             |            | *          |
| 3500        | AAATAAAATTT | AAATCTAAAT  | AAAAATAATT  | TTTCCTTAAT | GTTGAAACAA |
|             |             |             |             |            | CTCATGTTAT |
| 3520        |             |             |             |            |            |
|             |             |             |             |            | 3540       |
|             |             |             |             |            | *          |
| 3560        | ACTTCAAAAT  | TATAAGTATT  | ATATTTACCT  | TGATGATTTA | TTTATTAGTA |
|             |             |             |             |            | TATTAATTCT |
| 3580        |             |             |             |            |            |
|             |             |             |             |            | 3600       |
|             |             |             |             |            | *          |
| 3620        | GATTATAAAT  | ATGGTGGGAT  | ACAATCGCTT  | TCCACTAAAT | ATTTTAACTA |
|             |             |             |             |            | TGATTTATAA |
| 3640        |             |             |             |            |            |
|             |             |             |             |            | 3660       |
| 3680        | ATTTATTTCA  | ACATCGTATA  | TTTACTTATT  | AATACATAAT | TTATCATAAT |
|             |             |             |             |            | TTTATGGA   |
|             |             |             |             |            | 3720       |
|             |             |             |             |            | *          |

Figure 2F

# Sequence "66048680"

|  |                             |                 |             |            |            |
|--|-----------------------------|-----------------|-------------|------------|------------|
| TTGAGACCAA   | GAAACATTAA                  | GAGAACAAAT      | TCTATAACAA  | AGACAATTTA | GAAAAAATG  |
|  | 3740                        |                 | 3760        |            | 3780       |
| TACTTTTAGG   | TAATTTTAAG                  | TACTCTTAAC      | CAACACAAA   | AATTCAAATC | AAATGAACTA |
|  | 3800                        |                 | 3820        |            | 3840       |
| AATAAGATAA   | TATAACATAC                  | GGAACATCTT      | ACTTGTAATC  | TTACATTCCC | ATAATTTTAT |
|  | 3860                        |                 | 3880        |            | 3900       |
| TATGAAAAAT   | AATCTTTATAT                 | TACTCGAACT      | AAATGTTGTC  | ACAAATTATT | ATCTAAATAA |
|  | 3920                        |                 | 3940        |            | 3960       |
| AGAAAAACAC   | TTAATTTTIA                  | TAACATTTTTT     | TCATATATTT  | GAAAGATTAT | ATTTTGTATA |
|  | 3980                        |                 | 4000        |            | 4020       |
| TTTACGTAAA   | AATATTTTGAC                 | ATAGATTGAG      | CACCTTCTTA  | ACATAATCCC | ACCATAAGTC |
|  | 4040                        |                 | 4060        |            | 4080       |
| AAGTATGTAG   | ATGAGAAAAT                  | GGTACAAACA      | ACGTGGGGCC  | AAATCCCACC | AAACCATCTC |
|  | 4100                        |                 | 4120        |            |            |
| TCATTCTCTC   | CTATAAAAGG                  | CTTGCTACAC      | ATAGACAACA  | ATCCACACA  | C AAA TAC  |
|  | 4140                        |                 | 4160        |            | 4180       |
| ACG TTC TTT TCT  | TTC TAT TTG ATT AAC         | CAT GGC TCA TAG | CAT TCG TCA |            |            |
| <Arg Glu Lys Arg Lys Arg Lys   | Ile Gln Asn Val Met Ala *** | Leu Met Arg *** |             |            |            |
|  | 4200                        |                 | 4220        |            |            |
| CCC TTT CTT CCT TTT CCA ACT TTT ACT CAT AAG TGT CTC ACT AGT GAC      |                             |                 |             |            |            |
| <Gly Lys Lys Arg Lys Lys Trp Ser Lys Ser Met Leu Thr Glu Ser Thr Val |                             |                 |             |            |            |

Figure 2G

# 46E02T" 66048680

|      |   |      |      |
|------|---|------|------|
| 4240 | CGG TAG CCA CAC TGT TTC GGC AGC GGC TCG ACG TTT ATT CGA GAC ACA   | 4260 | 4280 |
|      | <Pro Leu Trp Val Thr Glu Ala Ala Arg Arg Lys Asn Ser Val Cys      |      |      |
|      |   | 4300 | 4320 |
|      |   | *    |      |
|      | AGC AAC CTC ATC AGA GCT CCC ACA ATT GGC TTC AAA ATA CGA AAG CAC   |      |      |
|      | <Ala Val Glu Asp Ser Ser Gly Cys Asn Ala Glu Phe Tyr Ser Leu Val  |      |      |
|      |   | 4340 | 4360 |
|      | GAG AGT CTG AAT ACG AAA AGC CAG AAT ACA AAC AGC CAA AGT ATC ACG   |      |      |
|      | <Leu Thr Gln Ile Arg Phe Ala Leu Ile Cys Val Ala Leu Thr Asp Arg  |      |      |
| 4380 |   | 4400 | 4420 |
|      |   | *    |      |
|      | AAG AGT ACT CAA AAC TTG AGA AGC CTG AAA TGC AAA AGG AGG AAA AAC   |      |      |
|      | <Leu Thr Ser Leu Val Gln Ser Ala Gln Phe Ala Phe Pro Pro Phe Val  |      |      |
|      |   | 4440 | 4460 |
|      | AAA AAC CCT GCA AAC AGC ATG AAG AGT ACC ACG AGT CAC ACG AAT CAA   |      |      |
|      | <Phe Val Arg Cys Val Ala His Leu Thr Gly Arg Thr Val Arg Ile Leu  |      |      |
| 4480 |   | 4500 | 4520 |
|      |   | *    |      |
|      | AGG AGC AAA AAG AGT ACG AGA AAG AAA ATC TCGACGAA TTCCCCCGGG       |      |      |
|      | <Pro Ala Phe Leu Thr Arg Ser Leu Phe Asp                          |      |      |
|      |   | 4540 | 4560 |
|      | CGTCGACGGC TAGCGAAGAT CTTCGGGCCC GTCGAGCCTT GAATCATATG ACACGTGTGC |      | 4580 |
|      |   | 4600 | 4620 |
|      |   | *    | 4640 |
|      | ATGTGCCATC ATCATGCAGT AATTTCATGG TATATCGTAA TATATAGTTA ATAAAAAGA  |      |      |
|      |   | 4660 | 4680 |
|      |   |      | 4700 |
|      |   |      | *    |
|      | TGGTGATTGG GAAATCTGTG TGTCATTC TCCATGCACT AATGGTGAAT CTC TTTCAT   |      |      |

Figure 2H

# 468217 " 66048680

|             |      |             |             |      |             |            |      |             |
|-------------|------|-------------|-------------|------|-------------|------------|------|-------------|
| ACATAGAAAT  | 4720 | TCTAAATGGT  | TATAGTTTAT  | 4740 | GTATAGTGT   | ATGTTGTAGT | 4760 | GAAATTAAAT  |
| TTAAAAIGTTG | 4780 | TATCTPAATGT | TAACATCACT  | 4800 | TGGCTTGATT  | TATGTTATGT | 4820 | TATGTATTTT  |
| ACTTTAATGA  | 4840 | TATTGCATGT  | ATTGTTAATT  | 4860 | TAACATTCGT  | TGATCATTAT | 4880 | ACTCTTCTAC  |
| TATTAATTAT  | 4900 | AAATGGCACT  | GTTTGTGTTA  | 4920 | AACTTTTTAC  | AAGTTAAGAC | 4940 | ATGTATAAAT  |
| ATATGACAAAT | 4960 | ATAATTACAG  | GTTTTAGTTC  | 4980 | AATGTTAGCT  | ATCTTAGTAT | 5000 | GTTATTGATG  |
| ATCTTAATTA  | 5020 | CATTFAACA   | AATCCCACTT  | 5040 | AAAATTTTAA  | TAAATAATAA | 5060 | CAAAATAATTA |
| TTGTAAATATA | 5080 | ATACATTAAA  | TGCAACAAAA  | 5100 | AATGAAATAA  | ATAAAATAAA | 5120 | ATAGCAAATA  |
| ATTGTTATAA  | 5140 | TATTGTAATA  | TAAATATGTAC | 5160 | CATATTCTTA  | ACTGAAATAG | 5180 | GGTCTAACCT  |
| ATAATCCCTA  | 5200 | AAATTTTCAGT | TTAAATATTTT | 5220 | TTATACCCTAC | CATATTATTA | 5240 | GAACCTCTTTT |
| TAAATATATT  | 5260 | AAAATTTTAA  | TTATACCAAT  | 5280 | TTAATTAAAC  | TATTAATTAT | 5300 | CTTAACATAA  |

Figure 2I

# Accession: G6048680

|            |             |            |             |             |             |
|------------|-------------|------------|-------------|-------------|-------------|
| ATCTAAAAAT | TTATTTAAACC | TATTAATAAA | TTCCCTAATTA | TCTTATCTAA  | TTTAAAACTC  |
| 5320       |             |            | 5340        |             | 5360        |
| TAATTATCCT | AATTTAATTT  | AAATTCTTAA | TTATCTTAAT  | TTGTAAACCTC | CTCCACCCAG  |
| 5380       |             |            | 5400        | *           | 5420        |
| CTAGATGCTG | GACCCGAATC  | CGGGAGATTA | CATCGGCCAT  | TGAGATGGCG  | TGATCAGGGT  |
| 5440       |             |            | 5460        |             | 5480        |
| TTGGCGCGCC | GGTACCCCAAT | TCGCCCTATA | GTGAGTTCGT  | ATTACGCGCG  | CTCACTGCCGT |
| 5500       | *           |            | 5520        |             | 5540        |
| CCGGTTT    |             |            |             |             |             |

Figure 2J

# 462021" 66048680

|            |             |             |
|------------|-------------|-------------|
| 20         | 40          | 60          |
| ACTAAAGGGA | ACAAAAGCTG  | GAGCTCCACC  |
|            | GCGGTGGCGG  | CCGCTCTAGG  |
|            |             | ATCCCCCGTG  |
| 80         | 100         | 120         |
| GACTAAACAA | AACATGGGAA  | GATTTGCTGT  |
|            | AAAAAAATAA  | AAGAAGCTTA  |
|            |             | CTCAATAACA  |
| 140        | 160         | 180         |
| CTTTGTGAAT | TGTATACAAA  | AGACTCAATG  |
|            | AAAAACAATA  | ACTCAATACA  |
|            |             | CTTTTTTTTCA |
| 200        | 220         | 240         |
| CTGATTTACA | TCCTTTTATAT | AGGCTGAAAC  |
|            | TACAACAAC   | TTAGCTAAAA  |
|            |             | AAATAGGATA  |
| 260        | 280         | 300         |
| ACCTAATAGC | AAAAATCACAA | TCAGATATTA  |
|            | AACCATGATT  | TTAGCTAACC  |
|            |             | ATTTAACAAC  |
| 320        | 340         | 360         |
| TTTATTGAAA | CTAAATTGAA  | TATTTTCATCT |
|            | GCTGATATGC  | CCAAGATTTT  |
|            |             | AGGCCACTAA  |
| 380        | 400         | 420         |
| CCGATTTGGT | GGTGAACCTTT | AACATGTCAT  |
|            | GCATTTGTAA  | CTGTTTGAAA  |
|            |             | CAAGTTTTT   |
| 440        | 460         | 480         |
| GCATTATTTT | ACTATATGAA  | CTGTTTGATT  |
|            | AGGTTGAGTT  | ACACACTGAG  |
|            |             | CTTGTAAAGCT |
| 500        | 520         | 540         |
| CACTCAAAAT | TTTCTAATTT  | CTAAGGTGAT  |
|            | CAGCAAACTT  | AGGACCGGC   |
|            |             | GGCGTACGAG  |
| 560        | 580         | 600         |
| AGCTCGGATT | GATTTTCTAG  | TTAATAAATA  |
|            | AGACGATTTA  | TGTTTTTAAA  |
|            |             | CTATTATGGA  |

Figure 3A

# 2602T" 66048680

|      |            |            |     |            |            |            |            |      |
|------|------------|------------|-----|------------|------------|------------|------------|------|
| 620  | CTTTTGGAC  | TATGTAAC   | TG  | TTTGGACTT  | TATTTTGT   | TTTATTTGC  | TTTTTTTGA  | 660  |
| 640  |            |            |     |            |            |            |            |      |
| 680  | TTTAGTAAT  | ATTATTTT   | TTA | AACTGCAAAA | TTATATGTT  | TTACAAACTA | AGTCACAGTT | 720  |
| 700  |            |            |     |            |            |            |            |      |
| 740  | TTCAAAATTC | CATAACTTAG | AA  | TTTTTTCGC  | TGCAAAATAA | AGTAATCATT | TAAGTGT    | 780  |
| 760  |            |            |     |            |            |            |            |      |
| 800  | TTCTGTAATA | AAATAAAATA | ATA | ATTTTAA    | CGAGTATTT  | CCTAAAAAAT | GGAAATTGAT | 840  |
| 820  |            |            |     |            |            |            |            |      |
| 860  | TTACCAAAAT | TAGTATGTCA | AA  | CACAIGT    | TTATATGTTA | CAGGGCGATA | TCGTCTAGGC | 900  |
| 880  |            |            |     |            |            |            |            |      |
| 920  | AAATAACATC | TAGGCGGGT  | TT  | GAGTGT     | ACAGGGCGAG | TGGGCTCATT | TTGAGTAAGT | 960  |
| 940  |            |            |     |            |            |            |            |      |
| 980  | ATAGTTAGGG | CCGAGTTT   | TTA | GATTGCATAT | TCAAGGTCAA | AGATTTTGT  | AACTTCGATG | 1020 |
| 1000 |            |            |     |            |            |            |            |      |
| 1040 | AATGATATGT | ATGATTGTCC | GAT | TAAACGAA   | ATATGTTTTT | TTCTTTTGTG | TGTGTTTTAT | 1080 |
| 1060 |            |            |     |            |            |            |            |      |
| 1100 | CTCGTGTGAT | AAGTATATAG | TAT | GTTTTAT    | TCCAATTCTT | ATGGCATGTG | ACATTGTGGC | 1140 |
| 1120 |            |            |     |            |            |            |            |      |
| 1160 | TATCTTAAT  | AAATGATTT  | GTT | ATTATTG    | AAATCTGATG | CATCTGTCT  | ACAAAGCATG | 1200 |
| 1180 |            |            |     |            |            |            |            |      |
| 1220 |            |            |     |            |            |            |            |      |
| 1240 |            |            |     |            |            |            |            |      |
| 1260 |            |            |     |            |            |            |            |      |

Figure 3B

# Sequence "66048688"

|             |            |            |            |             |             |
|-------------|------------|------------|------------|-------------|-------------|
| GAATCTCATG  | CCTACTGCTT | TCTGTAAAG  | ATACGATGC  | AAGTTAACA   | TGCTTACTAT  |
| 1280        |            | 1300       | *          |             | 1320        |
| TTTGATTTTG  | TCCTTGCATG | CTATGTCACA | TTACATGGG  | TTGGGATGAT  | ATGGTAAGGA  |
| 1340        |            | 1360       |            |             | 1380        |
| GGAAGTTTTG  | ACAGTTTAAT | GATTGCACT  | ATCTGGTGGT | TTAACCACAT  | ATTTGTTATG  |
| 1400        | *          | 1420       |            |             | 1440        |
| GCATCTTGAC  | TGCGGTTATG | GTGGCTCGAC | CGCCCATATC | TGTTCTGGAA  | ATTTATCTGT  |
| 1460        |            | 1480       |            |             | 1500        |
| GACTCTGGTG  | GCATTGTCTA | CAATTATTG  | TTGGTGTGTT | TTGGATGGAC  | GAGTCGTGGG  |
| 1520        |            | 1540       |            |             | 1560        |
| GAACTCTATT  | TGGTGTGTG  | CGGAGTTGGG | TAGGAAATTT | TCGAAAAAAA  | TTTGCAATTGT |
| 1580        |            | 1600       | *          |             | 1620        |
| GTTTTTCTGA  | AAAATATTGC | ATTAACATAA | TCATGCATTC | TCAATTTTGG  | TCAATTGAAC  |
| 1640        |            | 1660       |            |             | 1680        |
| GTTATAAAAT  | TCTCTATGAT | ATCCTGATCT | GTTTATTACA | TTATATGTGT  | TTATGCTTGA  |
| 1700        | *          | 1720       |            |             | 1740        |
| GTTAAGTCAA  | ACATTGAGAT | TCATAGCTCA | CCCAATTATT | TAATCATTTTC | AGGCAATCTG  |
| 1760        |            | 1780       |            |             | 1800        |
| CAGACTTAGG  | ATTGGATGGC | GTTCAGGAGC | TTGGATTGGT | TTTCTCACAT  | CATATTTTAT  |
| 1820        |            | 1840       |            |             | 1860        |
| TAAATAAATTA | TTAATTAAAA | TTTATGGACT | TTTGGACTGT | CTGACTAATT  | TTCAGAAATTT |

Figure 3C



# Sequence "5043680"

|   |        |        |
|---|--------|--------|
| 1880  | 1900 * | 1920   |
| TATTTTGGTT TTGGGTTTTG TTGAAATTTTT TAGATAAATTA TTTTAAATAT TCTGCATAAT |        |        |
| 1940  | 1960   | 1980   |
| TTTTCCTGTTA TTTGAAAAGG ATGTTTCAAT TTTTTCCTCA AATTGAAACG TTTAAGAAAT  |        |        |
| 2000 *  | 2020   | 2040   |
| TTTACTACTG CAAATTCAGA ATAAAGTGAAT TTGTTTTTTA GAAAGATTAA ATAAGTTAGT  |        |        |
| 2060  | 2080   | 2100 * |
| ATTACGATTT TTAGTTTGTAT TTGGTGGAAA GTAATCTATG TTTTGAACA TAATTATTG    |        |        |
| 2120  | 2140   | 2160   |
| ACAATAAATTA AGTTTCTTAG GGAATAAACG GAAATATCTT CTTCTTTTTT GTAAAAATTAC |        |        |
| 2180  | 2200 * | 2220   |
| TAATGCAAGA ACAAACAACG TTTTGGGGAG CAAATAATCT AGCTTTAAGT AGTCAGTGTA * |        |        |
| 2240  | 2260   | 2280   |
| ACTCTCAAAA TCTGGTCATA ACTTCTAGGC TGAGTTTGCT GTGCTACAGT AGTAAAGTCTA  |        |        |
| 2300 *  | 2320   | 2340   |
| TAGAAACTTA CCTGACAAAA CGACATGACG TCAGGGGTCA ATCTACAACT TTTCCCTTTTT  |        |        |
| 2360  | 2380   | 2400 * |
| CTTCAATTAA CATATGGTTG ATTCAAGTTC CGATCTATAA TAATTTATTA CGATTTATCA   |        |        |
| 2420  | 2440   | 2460   |
| ATTTCAATTAA CCTTATATCA TCCTATTATA AATATAAGTC AGTTCAATTC AGTTTTTCGAA |        |        |

Figure 3D

# Sequence "66048680"

|      |             |            |            |            |             |             |      |
|------|-------------|------------|------------|------------|-------------|-------------|------|
| 2480 | AGTTCCCAA   | AATTTTGAAT | TTTATTAAAT | TTATTCCTTA | AAACCGAAAT  | AGTTATACT   | 2520 |
|      |             |            |            | *          |             |             |      |
| 2540 | TTCAAATTTA  | AGTTTCATTT | TTCAATCCGA | TTTCAATTTC | ATCCTTTTAT  | AACCTCTCTAT | 2580 |
| 2600 | TATCTATAAT  | TACATAAAAT | TCAAATTAAT | TTTGAAATAT | TTACACTTTA  | GTCCTTAAAGT | 2640 |
|      |             | *          |            |            |             |             |      |
| 2660 | TCAAAACTAT  | AAATTTTCAC | TTTAGAAAT  | AATCATTTTT | CACATCTAAG  | CATCAAAATTT | 2700 |
|      |             |            |            |            |             | *           |      |
| 2720 | AACCAAATGA  | CACAAATTTT | ATGATTAGTT | AGATCAAGCT | TTTGAGTCTT  | CAAAACATAA  | 2760 |
| 2780 | AAATTACAAA  | AAAAAAACAA | ACTTAAATC  | ATTTATCAAT | TTGAACAACA  | AAGCTTGGCC  | 2820 |
|      |             |            |            | *          |             |             |      |
| 2840 | GAATGCTAAG  | AGCTTAAAAA | TGGCTTCTTT | TGTTTCTTTT | TGTTGCAAC   | GGTGGAGAGA  | 2880 |
| 2900 | AGAGGGAAAT  | GAAGATTGAC | CATATTTTTT | TATTATGTTT | TAAACATATAA | TATTAATAAT  | 2940 |
|      |             | *          |            |            |             |             |      |
| 2960 | TTAATCATAA  | TTATACTTTG | GTGAATGTGA | CAGTGGGGAG | ATACGTAAAG  | TATTTTAAACA | 3000 |
|      |             |            |            |            |             | *           |      |
| 3020 | TTTATACTTTT | TGCAAGCAGT | TGGCTGGTCT | ACCCAAGAGT | GATCAAAAGTT | TGAGCTGCCT  | 3060 |
| 3080 |             |            |            |            |             |             | 3120 |
|      |             |            |            |            |             |             |      |

Figure 3E



# Sequence "56048680"

|             |                 |             |            |                      |             |
|-------------|-----------------|-------------|------------|----------------------|-------------|
| AAGAAACATT  | AAGAGAACAA      | ATTCTATAAC  | AAAGACAATT | TAGAAAAAAA           | TGTACTTTTA  |
|             | 3740            |             | 3760       |                      | 3780        |
| GGTAATTTTA  | AGTACTCTTA      | ACCAAACACA  | AAAATTCAAA | TCAAATGAAC           | TAAATAAGAT  |
|             | 3800            |             | 3820       |                      | 3840        |
| AATATAACAT  | ACGGAACATC      | TTACTTTGTAA | TCTTACATTC | CCATAAATTTT          | ATTATGAAAA  |
|             | 3860            |             | 3880       |                      | 3900        |
| ATAATCTTAT  | ATTACTCGAA      | CTAAATGTTG  | TCACAAATTA | TTATCTTAAAT          | AAAGAAAAAC  |
|             | 3920            |             | 3940       |                      | 3960        |
| ACTTAATTTT  | TATAACATTT      | TTTCATATAT  | TTGAAAGATT | ATATTTTGTG           | TATTTACGTA  |
|             | 3980            |             | 4000       |                      | 4020        |
| AAAATATTTG  | ACATAGATTG      | AGCACCTTCT  | TAACATAATC | CCACCATAAG           | TCAAGTATGT  |
|             | 4040            |             | 4060       |                      | 4080        |
| AGATGAGAAA  | TTGGTACAAA      | CAACGTGGGG  | CCAAATCCCA | CCAAACCATC           | TCTCATTTCT  |
|             | 4100            |             | 4120       |                      |             |
| TCCTATAAAA  | GGCTTGCTAC      | ACATAGACAA  | CAATCCACAC | A CA AAT ACA CGT TCT |             |
|             | 4140            |             | 4160       |                      | 4180        |
| TTT CTT TCT | ATT TGA TTA     | ACC ATG G   | CTCATAGCAT | TCGTCACCCT           | TTCTTCCCTTT |
| <Lys        | Lys Arg Asn Ser | *** Gly His |            |                      |             |
|             | 4200            |             | 4220       |                      | 4240        |
| TCCAACTTTT  | ACTCATAAGT      | GTCTCACTAG  | TGACCGGTAG | CCACACTGTT           | TCCGCAGCGG  |
|             | 4260            |             | 4280       |                      | 4300        |

Figure 3G

# Sequence "G6048680"

|            |             |             |             |            |             |
|------------|-------------|-------------|-------------|------------|-------------|
| CTCGACGTTT | ATTGAGAGACA | CAAGCAACCT  | CATCAGAGCT  | CCCACAATTG | GCTTCAAAAT  |
| 4320       |             | 4340        |             | 4360       |             |
| ACGAAAAGCA | CGAAGAGTCT  | GAATACGAAA  | AGCCAGAATA  | CAAACAGCCA | AAGTATCAGC  |
| 4380       |             | 4400        |             | 4420       |             |
| AAGAGTACTC | AAAACCTTGAG | AAGCCTGAAA  | TGCAAAAGGA  | GGAAAAACAA | AAACCCCTGCA |
| 4440       |             | 4460        |             | 4480       |             |
| AACAGCATGA | AGAGTACCAC  | GAGTCACACG  | AATCAAAAGGA | GCAAAAAGAG | TACGAGAAAG  |
| 4500       |             | 4520        |             | 4540       |             |
| AAAATCTCGA | CGGGCCCGAA  | GATCTTCGCT  | AGCCGTCGAC  | GCCCCGGGGG | ATTCTGTCGAG |
| 4560       |             | 4580        |             | 4600       |             |
| CCTTGAATCA | TATGACGCTG  | GTGCATGTGC  | CATCATCATG  | CAGTAATTTC | ATGGTATATC  |
| 4620       |             | 4640        |             | 4660       |             |
| GTAATATATA | GTTAATAAAA  | AAGATGGTGA  | TTGGGAAATG  | TGTGTGTGCA | TTCCCTCCATG |
| 4680       |             | 4700        |             | 4720       |             |
| CACTAATGGT | GAATCTCTTT  | GCAATACATAG | AAATTCTAAA  | TGGTTATAGT | TTATGTTATA  |
| 4740       |             | 4760        |             | 4780       |             |
| GTGTATGTTG | TAGTGAAAKT  | AATTTTAAAT  | GTGTATCTTA  | ATGTTAACAT | CACCTGGCTT  |
| 4800       |             | 4820        |             | 4840       |             |
| GATTTATGTT | ATGTTATGTA  | TTTTACTTTA  | ATGATATTGC  | ATGTATTGTT | AATTAAACAT  |
| 4860       |             | 4880        |             | 4900       |             |

Figure 3H

268021 " 66048621  
 TGCTTGATCA TTATACTCTT CTAATATTAA TTATAAATGG CACTGTTTIG TTAAACTTTT  
 4920  
 TTACAAGTTA AGACATGTAT AAATATATGA CAATATAATT ACAAGTTTTA GTTCAATGTT  
 4960  
 4980  
 AGCTATCTTA GTATGTATT GATGATCTTA ATTACATTTA AACAAATTC ACTTAAATTT  
 5000 \* 5020  
 5040  
 TTAATAAATA ATAACAAATA ATTATTGTAA TATAATACAT TAAATGCAAC AAAAAATGAA  
 5060 5080  
 5100 \* 5120 5140  
 ATAAATAAAA TAAAAATAGCA AATAATTGTT ATAATATTGT AATATAATAT GTACCATATT  
 5160 5180 5200 \*  
 CTTAACTGAA ATAGGGTCTA ACCTATAATC CCTAAAATTT CAGTTTAAAT ATTTTATAC  
 5220 5240 5260  
 CTGCCATATT ATTAGAACTC TTTTAAATA TATTAAAATT TTAATTTATAC CAATTTAAAT  
 5280 5300 5320  
 TAAACTATTA ATTATCTTAA CTAAAATCTA AAATTTTATT TAACCTATTA ATTAAATTC  
 5340 5360 5380  
 TAATTAATCTT ATCTAATTTA AAACCTCTAAT TATCCTAAAT TGATTTAAAT TCTTGATTAT  
 5400 \* 5420 5440  
 CTTAATTGTT AACCTCCTCC ACCCAGCTAG ATGCTGGACC CGAATCCGG AGATTACATC  
 5460 5480 5500 \*  
 GGCATTGAGA TGGCCTAGTA GTGATCAGGG TTTTCTTAGAG GTACCCAATT CGCCCTATAG

Figure 3I

262027 65048680

TGAGTCGT

Figure 3J

# Sequence "CCTHBBB"

|         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| AAAAACA | ATG | AGC | ACT | GCA | ACA | TTT | ATC | AAG | TGT | GTC | ACG | GTC | GGT | GAT | 50  |
| Met     | Ser | Thr | Ala | Arg | Phe | Ile | Lys | Cys | Val | Thr | Val | Gly | Asp |     |     |
|         | 1   |     |     | 5   |     |     | 10  |     |     |     |     |     |     |     |     |
| GGA     | GCT | GTG | GGG | AAA | ACT | TGT | ATG | CTC | ATT | TCA | TAT | ACC | AGC | AAT | 98  |
| Gly     | Ala | Val | Gly | Lys | Thr | Cys | Met | Leu | Ile | Ser | Tyr | Thr | Ser | Asn | 30  |
|         | 15  |     |     | 20  |     |     | 25  |     |     |     |     |     |     |     |     |
| TTC     | CCA | ACG | GAT | TAT | GTT | CCA | ACA | GTA | TTT | GAT | AAC | TTT | AGT | GCC | 146 |
| Phe     | Pro | Thr | Asp | Tyr | Val | Pro | Thr | Val | Phe | Asn | Phe | Ser | Ala | Asn |     |
|         |     |     | 35  |     |     |     | 40  |     |     |     |     |     |     | 45  |     |
| GTG     | GTG | GTG | GAT | GGC | AGC | ACA | GTG | AAC | CTT | GGC | CTA | TGG | GAC | ACT | 194 |
| Val     | Val | Val | Asp | Gly | Ser | Thr | Val | Asn | Leu | Gly | Leu | Trp | Asp | Thr | Ala |
|         |     |     | 50  |     |     |     | 55  |     |     |     |     |     |     | 60  |     |
| GGG     | CAA | GAA | GAT | TAT | AAT | AGG | CTA | AGG | CCA | CTG | AGT | TAT | AGA | GGA | 242 |
| Gly     | Gln | Glu | Asp | Tyr | Asn | Arg | Leu | Arg | Pro | Leu | Ser | Tyr | Arg | Gly | Ala |
|         |     | 65  |     |     |     |     | 70  |     |     |     |     |     |     | 75  |     |
| GAT     | GTG | TTT | TTG | GCC | TTT | TCT | CTT | ATA | AGC | AAG | GCC | AGT | TAT | GAA | 290 |
| Asp     | Val | Phe | Leu | Leu | Ala | Phe | Ser | Leu | Ile | Ser | Lys | Ala | Ser | Tyr | Glu |
|         | 80  |     |     |     |     | 85  |     |     |     | 90  |     |     |     |     |     |
| AAC     | ATC | TAC | AAA | AAG | TGG | ATC | CCA | GAG | CTA | AGA | CAT | TAT | GCT | CAT | 338 |
| Asn     | Ile | Tyr | Lys | Lys | Trp | Ile | Pro | Glu | Leu | Arg | His | Tyr | Ala | His | Asn |
|         |     |     | 95  |     | 100 |     |     | 105 |     |     |     |     |     | 110 |     |
| GTA     | CCA | GTT | GTG | CTT | GTT | GGA | ACC | AAA | CTA | GAT | TTG | CGA | GAT | GAC | AAG |
| Val     | Pro | Val | Val | Leu | Val | Gly | Thr | Lys | Leu | Asp | Leu | Arg | Asp | Lys |     |
|         |     |     | 115 |     |     |     |     | 120 |     |     |     |     |     | 125 |     |
| CAG     | TTC | CTC | ATT | GAT | CAC | CCT | GGA | GCA | ACA | CCA | ATA | TCA | ACA | TCT | 434 |
| Gln     | Phe | Leu | Ile | Asp | His | Pro | Gly | Ala | Thr | Pro | Ile | Ser | Thr | Ser | Gln |
|         |     |     | 130 |     |     |     | 135 |     |     |     |     |     |     | 140 |     |
| GGA     | GAA | GAA | CTA | AAG | AAG | ATG | ATA | GGA | GCA | GTT | ACT | TAT | ATA | GAA | TGC |
|         |     |     |     |     |     |     |     |     |     |     |     |     |     | 482 |     |

FIGURE 4A



# Sequence 56048630

|          |       |         |       |         |       |         |       |         |       |         |        |       |     |     |     |     |
|----------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|--------|-------|-----|-----|-----|-----|
| Gly      | Glu   | Glu     | Leu   | Lys     | Lys   | Met     | Ile   | Gly     | Ala   | Val     | Thr    | Tyr   | Ile | Glu | Cys |     |
|          | 145   |         |       |         |       | 150     |       |         |       |         |        | 155   |     |     |     |     |
| AGC      | TCC   | AAA     | ACC   | CAA     | CAG   | AAT     | GTG   | AAG     | GCT   | GTT     | TTC    | GAT   | GCT | GCA | ATA | 530 |
| Ser      | Ser   | Lys     | Thr   | Gln     | Gln   | Asn     | Val   | Lys     | Ala   | Val     | Phe    | Asp   | Ala | Ala | Ile |     |
|          | 160   |         |       |         |       | 165     |       |         |       |         | 170    |       |     |     |     |     |
| AAA      | GTA   | GCT     | TTG   | AGG     | CCA   | CCA     | AAA   | AAG     | AGA   | AAG     | CCT    | TGC   | AAA | AGG |     | 578 |
| Lys      | Val   | Ala     | Leu   | Arg     | Pro   | Pro     | Lys   | Pro     | Lys   | Arg     | Lys    | Pro   | Cys | Lys | Arg |     |
|          | 175   |         |       |         | 180   |         |       |         |       | 185     |        |       |     |     | 190 |     |
| AGA      | ACA   | TGT     | GCT   | TTC     | CTT   | TGA     | AAT   | ATTGG   | ATC   | ATTATTA | CAGTCA | AAAAA |     |     |     | 626 |
| Arg      | Thr   | Cys     | Ala   | Phe     | Leu   |         |       |         |       |         |        |       |     |     |     |     |
|          |       |         |       |         | 195   |         |       |         |       |         |        |       |     |     |     |     |
| CAGTTA   | ACAA  | AAGCTGT | TGC   | AGATAA  | ACAC  | TGAATCT | GCCT  | ATAGTTT | GTGTT | TTTGGTT | TAC    |       |     |     |     | 686 |
| ATATGTT  | TCCA  | CGTGAA  | ACTA  | TGAAGCA | TCT   | CTAAGA  | AAAC  | CCAAACT | ATC   | ATATCA  | AACCC  |       |     |     |     | 746 |
| ATCGAT   | CAAT  | GAATCG  | ATTT  | CAATTTT | TCGC  | AGTATA  | AAGTT | CCTTTT  | TAATC | CTTTCT  | TTTTT  |       |     |     |     | 806 |
| ACTTCAT  | TTTTT | ATAACG  | AATTT | CTATGG  | AATAA | TGTTCC  | CTAC  | AAACAT  | GTCA  | TTACA   | ATGTT  |       |     |     |     | 866 |
| TAATTATA | AAA   | TTCCAT  | TCTT  | CTATTTT | TACT  | AAAAA   | AAAAA | AAAAA   | AAAAA | AAAAA   | AAAAA  |       |     |     |     | 910 |

FIGURE 4B

Accession: 6648680

|    |            |             |   |
|----|------------|-------------|---|
| 5  | 20         | 40          | 60  |
|    | TTGGATGAGA | ACCAATTTT   | AATAGTAAAN CCTAACCAAT TTTTAATAAT AAAGCTGACT   |
|    | 80         | 100         | 120   |
|    |            | *           |   |
|    | CCTAGTACAA | GAGCTTTTAT  | TCATTCCTCT ATTTTGCTTT CCTCTAGGCT TGGCAATCGA   |
| 10 | 140        | 160         | 180   |
|    | GAATTTTCTT | GTGTTACAAT  | ATAATAAATA CATCGTAGAA ATAAATTTTA TTCAAATTGA   |
|    | 200        | 220         | 240   |
|    | *          |             |   |
|    | AGTCTTAACC | ATCTTTAATA  | TTTGTAGATG TAATTTAAAT GAAAGATAAA TACATATCT    |
| 15 | 260        | 280         | 300   |
|    |            |             | *   |
|    | TGGACATGTA | TTTTTCATCTT | AATGTTTGTG GCTTTGGTGA TAGGTGTAAT GATGTACGAT   |
| 20 | 320        | 340         | 360   |
|    | GTCTTTTAAA | TCACATATCA  | CATTTTGAGT TTGTATGATG ATAAGTCGAC ATAANCGAAA   |
|    | 380        | 400         | 420   |
|    |            | *           |   |
|    | TATGGTGTGA | TCTTCACTTT  | TGAACTTTGA TAAGTCACCA AACTTTAACA AAGTTTGATT   |
| 25 | 440        | 460         | 480   |
|    | GTGTACATAT | ATATATATAT  | CTTCAAATTT TATAATAAAA ATTGTGTTTA AATAATTAC    |
| 30 | 500        | 520         | 540   |
|    | *          |             |   |
|    | AGTTATATTA | TTTTTTTATC  | TCATAATTTA TTTGTGCGCCA AATTTTITAGT TGATATTTTA |
| 35 | 560        | 580         | 600   |
|    |            |             | *   |
|    | ACATAAAAAA | AATTGTACAC  | ATTTACAAGC CCATATACAA ATAATTATAT AAATATTCAAT  |

FIGURE 5/A

# Sequence "55048680"

|    |        |  |        |        |
|----|--------|--|--------|--------|
| 5  | 620    | TAAAAAATAT ATTTAAATAT AGGATATAAA TATAACTATT TTAGAATTAT TCTACTTTAA    | 640    | 720    |
|    | 680    | GATAACATAG GTTAAATGTA TAATTAAATAA GGTTAGTTTA TTGTAAAGAT GAGTATATAT   | 700 *  |        |
| 10 | 740    | GTCGTAAACA TAATCACATAA CCATTTTTAT TAACTTCTTG GTTTGAAGT TCCAAAAAGA    | 760    | 780    |
|    | 800 *  | AAATGGAAGG GAAATTTGAG AGTAAGTTCA TGTTTATATT ATACATAATG AAGTTGATGT    | 820    | 840    |
| 15 | 860    | TTTCTTCTTT TTAATAATTTT TATACAAAAT ATTTAAATAA AATAATTAAAG GATTGAATGA  | 880    | 900 *  |
| 20 | 920    | AAAATATAAT GAAAGTCGTT TTTACTAATAG TCATATTGCA TTTTGTGCGA TCTACTTAAA   | 940    | 960    |
|    | 980    | TAATAGATAA ATTAATTGTG GTACATTAGA TCAAAGAACA AACTAGATTT TGTCCCATTC    | 1000 * | 1020   |
| 25 | 1040   | TATTGTTAAA AGCTGCTCCG TTTACATTAA AATAAGGTAC ATGTTACATG CCACGTATAA    | 1060   | 1080   |
| 30 | 1100 * | CTATCTGGTT ATTCTATCAA TCACGGTAAT TTTTAAACAGT AGAAATGAAT GTAATTTTAA   | 1120   | 1140   |
|    | 1160   | AATAGAAAGG GTCAAAATTGT TATTGTGATCT AACACGTAGG GATTAAATTAA CTTATTTTCC | 1180   | 1200 * |
| 35 | 1220   |  | 1240   | 1260   |

FIGURE 5/B

# Sequence "65048680"

|    |   |        |        |        |
|----|---|--------|--------|--------|
| 5  | TAAAGAAATA AGTAAATAAT AATTGGAATC TTAATACAAA AACTTTCATG ATACTTTTAT   | 1280   | 1300 * | 1320   |
|    | CATATTTTAC TTATAAATTTA ATATTGTGAG AGTAACAAAR TTAAAAAACA TAGAAACACC  |        |        |        |
|    | AAAAATTAGT TATGGTGTGA CTCATATACA CAGTTAAAAAT TTGAATAAAT TTTTTTCTTC  | 1340   | 1360   | 1380   |
| 10 | GTCAATTAATT CCATCATGGG TTTTTTTTTT TCTAGTTAAG CCATAATTAT CAAAAATAATC | 1400 * | 1420   | 1440   |
|    | ATCATTTAATC CTATCAATAC CCGGCCCTGC CTCCCCTCCCT CAATACTTAA ACCCAACTAA | 1460   | 1480   | 1500 * |
|    | CACCCAGCAC CAAAAGCACT TTAATAGCCA CCTATTCTA GCCATGTCCT TGCACTTAAA    | 1520   | 1540   | 1560   |
| 20 | GAAAAAGTAAA GCTAACCTGC AATCATTTCA TATCGAGGCC TCAACAGATA AAGTTGGTTG  | 1580   | 1600 * | 1620   |
|    | ATGGGTTTGC ACCAAGTTGT TAAAACCCGG CCCTCAACTT CCCTTTTTCTT TTCATCCTCC  | 1640   | 1660   | 1680   |
| 25 | CCACTCCACA CCCTCCAATT TTCTTTCATAT GGTTCATTA TAAAGTCTTT ATAATCACAG   | 1700 * | 1720   | 1740   |
| 30 | AATCAAGATA AGTCCTCAGC AAACAAAAA CCATGGCTCT CGAGCAAGAT CTGGACTAGT    | 1760   | 1780   | 1800 * |
| 35 | CAGAGCTCTG AATATTGGAT CATTATTACA GTCAAAAAA GTTAACAAA GCTGTTGCAG     | 1820   | 1840   | 1860   |

FIGURE 5/C

# Sequence "55048530"

|    |  |        |        |
|----|--|--------|--------|
| 5  | 1880   | 1900 * | 1920   |
|    | ATAAACACTG AATCTGCTAT AGTTTGTGTTT TGGTTTACAT ATGTTCCACG TGAAACTATG |        |        |
|    | 1940   | 1960   | 1980   |
|    | AAGCATCTCT AAGAAAACCC AAACATATCAT ATCAACCCAT CGATCAATGA ATCGATTICA |        |        |
| 10 | 2000 *   | 2020   | 2040   |
|    | ATTTTCGCAG TATAAGTTCC TTTTAAATCCT TTCTTTTAC TTCATTTTAT AACGAATCT   |        |        |
|    | 2060   | 2080   | 2100 * |
| 15 | ATGGATAATG TTCCCTACAA ACATGTCATT ACAATGTTTA ATTATAAATT CCATTCCTCT  |        |        |
|    | 2120   | 2140   | 2160   |
|    | ATTTTACTAA GATATTAGTA ACTTCAAACT GCTGATTTT ACTAATTTAT TATTTATAAA   |        |        |
| 20 | 2180   | 2200 * | 2220   |
|    | TTGTGAGAAT GATTATTTT CAATAATTTA ACAACAATAT TTAATATTAT TATTATTATT   |        |        |
| 25 | 2240   | 2260   | 2280   |
|    | ATTTCTCAAT TTTTATTAAA CAAAAACATA AATTTTGGAC AAATTAAAAA AAATGAATTA  |        |        |
|    | 2300 *   | 2320   | 2340   |
|    | ATTTCTCAAT TTTTCGTGCA ACTATTACAA AAATCCTTCA TAGTCCTAAT CTTAATTGA   |        |        |
| 30 | 2360   | 2380   | 2400 * |
|    | TGCAGAGGTG ATAATAATCT TAATTGATG CAGAGGTAAT AATGGGCCCG GTTTGAGCTG   |        |        |
|    | 2420   | 2440   | 2460   |
| 35 | GACTTAAGCA TGATATTGAC GTACTTTATA TTTTCCAAA TTCAACCCAG CTCGAAATAT   |        |        |

FIGURE 5/D

# 26E02T" 56043680

|    |             |            |             |            |                       |
|----|-------------|------------|-------------|------------|-----------------------|
|    | 2480        |            | 2500        |            | 2520                  |
|    |             |            | *           |            |                       |
|    | GAGTCTAAAA  | TTTTGTCCAA | TTTAAATCCAA | GCCCATTTTA | AGTTCGTCCA TATTATTTT  |
| 5  | 2540        |            | 2560        |            | 2580                  |
|    | TAAATTTAAAA | AATTTATATC | ATTTTATTTT  | AATATTTAAT | TATTTTATAT ATTTTITATT |
|    | 2600        |            | 2620        |            | 2640                  |
|    | *           |            |             |            |                       |
| 10 | TATTGAAAAAT | TTTTATATAG | TCATCTTAAAC | ATTATGTTAA | TGTTTATATT AGAGTAGTAT |
|    | 2660        |            | 2680        |            | 2700                  |
|    |             |            |             |            | *                     |
| 15 | TATATATATT  | TAGTATAGGT | TTATTTTGT   | AATAAACTTA | AAAATGGGC TTGTGGGCTA  |
|    | 2720        |            | 2740        |            | 2760                  |
|    | GACTTGGACC  | TTAAATGCTC | AAACTCAAAC  | TTAATTCATA | TTTTAAACAG GCTTAATATT |
|    | 2780        |            | 2800        |            | 2820                  |
|    |             |            | *           |            |                       |
| 20 | TTTATTTACA  | CTGTTTCAAA | TTTTTTCGGGT | GAAATATCIT | CGAGTCTAGA TTAATAACAC |
|    | 2840        |            | 2860        |            | 2880                  |
|    | CACAGGTCTA  | ATTTGATGCT | CAATGAAAAAT | GAAATCATAT | TGAGCTTAAT TAATATTCCA |
| 25 | 2900        |            | 2920        |            | 2940                  |
|    | *           |            |             |            |                       |
|    | TTCTTCTTTG  | CTGAAAGGAC | CAAGCAATTC  | GAGTTACATT | AAGGTTAAAG AGTATGGGAT |
| 30 | 2960        |            | 2980        |            | 3000                  |
|    |             |            |             |            | *                     |
|    | CCGCCAAACC  | TGCCCCAATG | TCCTCTTCAAC | CATCCAAAAA | CTTGAGTCAG TATCACATAC |
|    | 3020        |            | 3040        |            |                       |
| 35 | ATGTACCGNT  | ATTTATTTAT | TTATTGAAAT  | TGGCATTATT | TCTTG                 |

FIGURE 5/E

08984099-120397

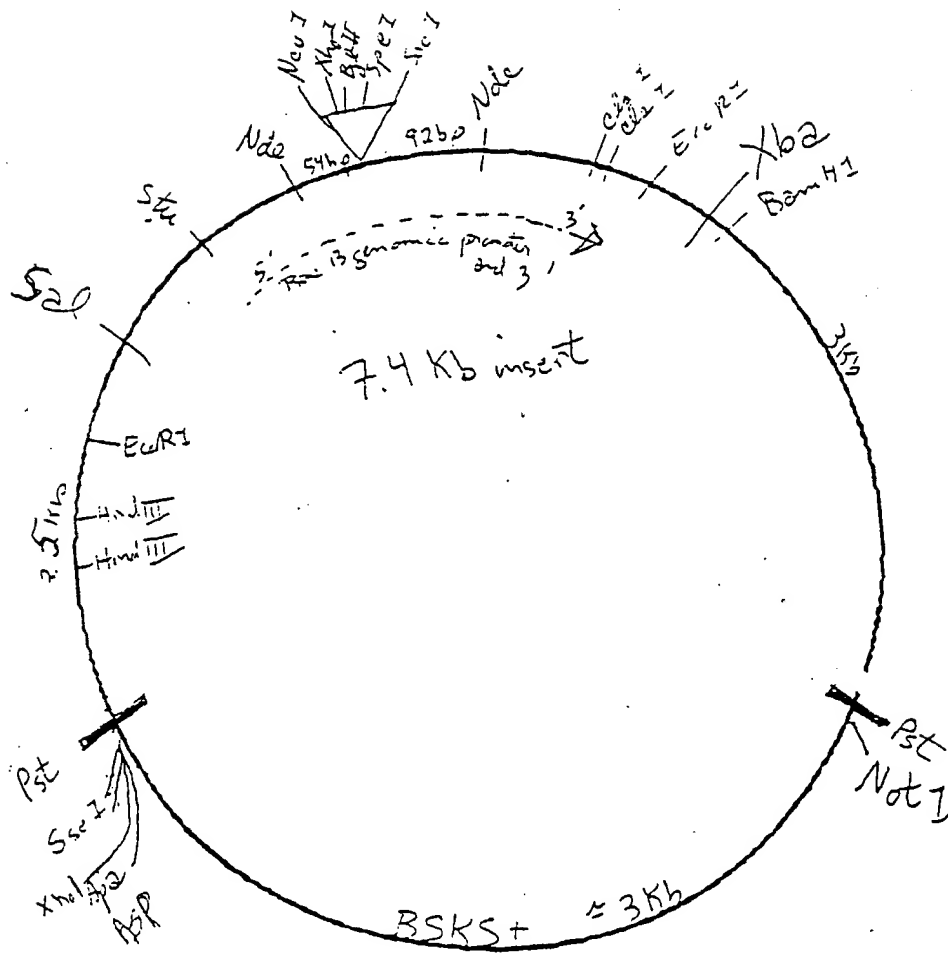


FIGURE 6

# Sequence "66043630"

|             |             |             |             |             |             |      |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| GGGCATTCCA  | CACGACCATG  | TGTCCCCCTAT | TTCCAGGCAT  | TTTGAGACTT  | CACCTAAACT  | 60   |
| TCTAGAGTTG  | TTTCAAATTA  | GCCCCCTATTT | GTTCCTTAAAT | CATTTTAGGA  | TC TTGTAAAC | 120  |
| TCGTATTTAG  | GACTAAATGT  | GTAATTTATA  | CTTTAATTAT  | GATTGATTAA  | TTGATTGATT  | 180  |
| TNGTAGTAAT  | GCCCCGTGACC | CTAATCCGTT  | AGCGAAGAGG  | GGTTAGGGGT  | TAGGGGTTTT  | 240  |
| ATTATTAATTT | TTTAGATATTT | GTATAACTCT  | TGTTTTTATTT | TTAATTTTGT  | TACTATTTCA  | 300  |
| AAGGCATTTG  | TTTGTAGTGT  | TATTTTCGAGT | AGGTTTTATG  | GGTGAACAAC  | CCTTGACCGC  | 360  |
| CAAATCAATC  | ACAAGAGTTC  | AACATTTTAT  | TTATTTTGAA  | ATGTATTAAA  | AATCGTTAAT  | 420  |
| CTATATATTC  | GCCCCATTAT  | TGGGATTAAA  | TATTCACAAG  | GGTTTAGACC  | GTCATGAGAC  | 480  |
| AGATTAGTTT  | TATCTTACTG  | ATGGTCACAT  | CACAATAGTA  | ATTCAACTTA  | ATACGAGAGG  | 540  |
| AACCATTGAT  | TCACGCAATT  | GGTCATCGCA  | CTTAGTTGAA  | AAGCTAGGGG  | TGCCGAAGCTA | 600  |
| CCGTACGCTG  | GATTATGATT  | GAACACCTCT  | AAGTCAGAAT  | CCGAATTAGA  | AACAATGCAC  | 660  |
| GTGTCCGTTG  | CCTGATTGCC  | AACCCCAATA  | ACACGTGTTG  | TAGGTTTAAAC | CATGTTTATG  | 720  |
| AAAGATAAGG  | TTTTTTTTTTT | TATAAGCAAG  | CAACTATAGG  | GGTTTACTTC  | CGTGCGCAAA  | 780  |
| TTTTTTAGGTT | ACCTATTTTG  | GGAGGGGGGA  | TTATGATTCA  | AGTGAAAAGAA | AGTTGGCACA  | 840  |
| CACACAATCA  | GTACATCTGT  | TTTGACAGAG  | ACACAGCCTA  | AAAACAGCAG  | CAAACAAGCC  | 900  |
| TAAAGGAATC  | ACCCAAAAAC  | AACAACCAAA  | AGTACAGAGG  | AAAACAAAAG  | AATCCCCTGTT | 960  |
| ACCACCAAGC  | TGAAAAAAAG  | AAAATAAAAC  | TCAACTTTTG  | GCAATAAAAA  | CCCTCCTACC  | 1020 |
| CTCAACCCCT  | AACCACGCAA  | CAATCAGCAA  | TACTCCAAGC  | AACCATTTTC  | CTTACAAGTT  | 1080 |

FIGURE 7A



# SEQUENCE 65048680

TGTTTTTCTT GTGATTAATC CAT ATG GCT AGC TCC ATG TCC CTT AAG CTT GCA 1133  
Met Ala Ser Ser Met Ser Leu Lys Leu Ala>

TGT CTG CTA GTG TTG TGC ATG GTG GGT GCA CCC CTG GCT CAA GGG 1181  
Cys Leu Leu Val Leu Cys Met Val Val Gly Ala Pro Leu Ala Gln Gly>

GAC GTA ACC CGT GCT GAT GGC GTA GTC ACC CTT CCA CGC TGC CTT CCT 1229  
Asp Val Thr Arg Ala Asp Gly Val Val Thr Leu Pro Arg Cys Leu Pro>

TTA TTG ATA GGG AAT GGT AAT GGT GCT GAT GCT GAT GAT GCC CCA 1277  
Leu Leu Ile Gly Asn Gly Ala Asp Ala Asp Val Asp Ala Pro>

GCT TGC TGC GAC ATC GTC AGG GGT CTC TTG AGC TCG CTG CTC TGT GGT 1325  
Ala Cys Cys Asp Ile Val Arg Gly Leu Leu Ser Ser Leu Cys Gly>

GGT GTT TAGGAACCG ATCTAGCTTG AAATCGGGTT CGGATACGGG TGGAGTTTCA 1380  
Gly Val>

AATTGGTGTG TTATGGAATC CCAACTTAAT CGTGTTAGG GGTGGGATCC AATTGTGTGA 1440

TACATTACAG AGCATGGTTG TGGATTGTTT TCTCATATGT TTTGATTGAC TTGCTTGATA 1500

CATTGGATGA TTCGATAAGG TGACCCGGTTT ACCTGGGTAT CCAACCATCA TCCGATTACT 1560

TTTTTAATAAT TATTTGTTC TTCTTTTATGT TGTCGTCTCTT TTTGTTCCTT GATCTATAAC 1620

ATTATATTTG CCCAAATTTT CGCATTTTCC ATATGTAGCT TATATATGTA TATATATATT 1680

CAATAAAGTA TATTGATTTA GCAGATGATT TGTTGTATATA TTTAAATCAA ATCAAACATT 1740

AATGATCATT CACTAGCGTC TTAATCTTGA AAAATTTCATC AACGGTTATC CTTTGCAGCA 1800

TATATAAAAA AAATTGCCAA CCTATGCTT TTACACCTAA TTCAAGGGAT AACATAAGTC 1860

GATTAACG A 1871

FIGURE 7B

26E02T" 56048680

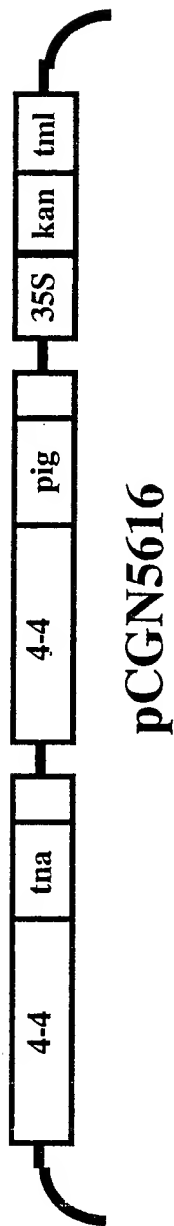
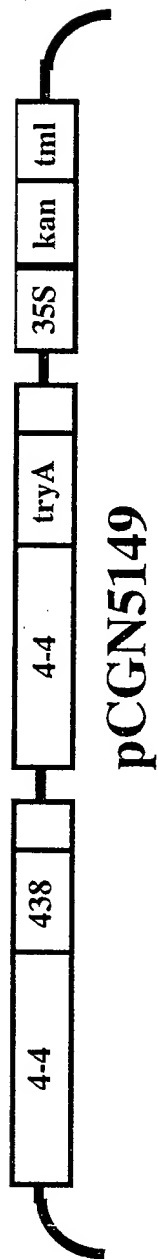


FIGURE 8

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## FIGURE 9

[illegible][illegible]

| 5149    | Yxy, Y   | Yxy, x   | Yxy, y   | Lab, L    | Lab, a | Lab, b | LCh, L | LCh, C | LCh, h |
|---------|----------|----------|----------|-----------|--------|--------|--------|--------|--------|
| 68-1    | 65.75    | 0.3351   | 0.34     | 84.86     | 0.72   | 11.9   | 84.86  | 11.92  | 86.6   |
| 68-1    | 62.54    | 0.3458   | 0.3474   | 83.19     | 2.14   | 15.84  | 83.19  | 15.98  | 82.4   |
| 68-1    | 62.56    | 0.3458   | 0.3474   | 83.2      | 2.14   | 15.85  | 83.2   | 15.99  | 82.4   |
| 8-1     | 84.72    | 0.3196   | 0.3278   | 93.76     | 0.89   | 5.87   | 93.76  | 5.93   | 98.6   |
| 68-1    | 64.97    | 0.3316   | 0.3354   | 84.46     | 1.17   | 9.81   | 84.46  | 9.87   | 83.3   |
| 17-2    | 64.42    | 0.3423   | 0.3436   | 84.18     | 2.26   | 14.19  | 84.18  | 14.36  | 81     |
| 17-3    | 60.97    | 0.3475   | 0.3475   | 82.36     | 2.74   | 16.03  | 82.36  | 16.26  | 80.4   |
| 17-15-1 | 64.02    | 0.3433   | 0.3444   | 83.97     | 2.34   | 14.57  | 83.97  | 14.75  | 80.9   |
| 21-1    | 59.32    | 0.3443   | 0.3445   | 81.46     | 2.64   | 14.41  | 81.46  | 14.64  | 79.7   |
| 21-3    | 63.64    | 0.34     | 0.3409   | 83.77     | 2.4    | 12.89  | 83.77  | 13.11  | 79.5   |
| 21-6    | 67.12    | 0.3372   | 0.3394   | 85.56     | 1.88   | 12.15  | 85.56  | 12.29  | 81.3   |
| 50-3-1  | 61.26    | 0.3502   | 0.3511   | 82.51     | 2.4    | 17.63  | 82.51  | 17.79  | 82.3   |
| 67-1    | 64.34    | 0.3434   | 0.3442   | 84.13     | 2.48   | 14.58  | 84.13  | 14.78  | 80.4   |
| 68-1    | 64.12    | 0.3442   | 0.3447   | 84.02     | 2.58   | 14.85  | 84.02  | 15.07  | 80.2   |
| 68-2    | 70.21    | 0.3428   | 0.3447   | 87.09     | 2.05   | 15.04  | 87.09  | 15.17  | 82.3   |
| 68-3    | 63.81    | 0.3457   | 0.3468   | 83.86     | 2.35   | 15.76  | 83.86  | 15.93  | 81.6   |
| 5149    | Hunter L | Hunter a | Hunter B |           |        |        |        |        |        |
| 68-1    | 81.08    | 0.71     | 10.89    |           |        |        |        |        |        |
| 68-1    | 79.08    | 2.08     | 14       |           |        |        |        |        |        |
| 68-1    | 79.09    | 2.09     | 14.02    |           |        |        |        |        |        |
| 8-1     | 92.04    | 0.91     | 5.81     |           |        |        |        |        |        |
| 68-1    | 80.6     | 1.15     | 9.06     |           |        |        |        |        |        |
| 17-2    | 80.25    | 2.21     | 12.75    |           |        |        |        |        |        |
| 17-3    | 78.08    | 2.68     | 14.09    |           |        |        |        |        |        |
| 17-15-1 | 80.01    | 2.29     | 13.05    |           |        |        |        |        |        |
| 21-1    | 77.01    | 2.56     | 12.73    |           |        |        |        |        |        |
| 21-3    | 79.77    | 2.35     | 11.65    |           |        |        |        |        |        |
| 21-6    | 81.92    | 1.86     | 11.14    |           |        |        |        |        |        |
| 50-3-1  | 78.26    | 2.33     | 15.36    |           |        |        |        |        |        |
| 67-1    | 80.2     | 2.43     | 13.07    |           |        |        |        |        |        |
| 68-1    | 80.07    | 2.53     | 13.28    |           |        |        |        |        |        |
| 68-2    | 83.79    | 2.04     | 13.68    |           |        |        |        |        |        |
| 68-3    | 79.87    | 2.3      | 14       |           |        |        |        |        |        |
|         |          |          |          | FIGURE 11 |        |        |        |        |        |

[illegible]

**FIGURE 12**

[illegible][illegible]